

**(Clean Copy Version) PLANT PATENT**  
**[File No. 10451.0058.NPUS01]**

**APPLICATION FOR UNITED STATES PLANT PATENT**

**for**

**CHRYSANTHEMUM PLANT NAMED 'STARLET BRONZE'**

**by**

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This application claims the benefit of U.S. Provisional Application No. 60/421,388, filed October 25, 2002.

## LATIN NAME OF THE GENUS AND SPECIES

Botanical classification: *Chrysanthemum morifolium*.

## VARIETY DENOMINATION

The new Chrysanthemum variety denomination is 'Starlet Bronze.'

## BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of Chrysanthemum botanically known as *Chrysanthemum morifolium*, and referred to by the cultivar name 'Starlet Bronze.'

'Starlet Bronze,' identified as 30763-0, originated from a cross made in a controlled breeding program in Chichester, West Sussex, United Kingdom. The female parent of the new variety is an undistributed, unpatented seedling identified as '98092-21.'

The male parent of the new variety is an undistributed, unpatented seedling identified as '98034.' The new variety 'Starlet Bronze' has been asexually reproduced by vegetative cuttings in Chichester, West Sussex, United Kingdom and the distinguishing characteristics are retained through successive generations of asexual reproduction.

## BRIEF SUMMARY OF THE INVENTION

'Starlet Bronze' is a garden type of Chrysanthemum plant variety having uniform canopy of small bronze single flowers.

### Comparison with Female Parent

Plants of the new Chrysanthemum variety 'Starlet Bronze' are similar to the female parent variety '98092-21' in plant habitat and growth rate. In side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Starlet Bronze' differ from plants of the parent '98092-21' in the following characteristics.

1. The new variety 'Starlet Bronze' produces bronze single flowers whereas the parent '98092-21' produces yellow single flowers.

2. Plants of the new variety 'Starlet Bronze' have larger and shorter inflorescence than plants of the parent '98092-21.'

#### Comparison with Male Parent

Plants of the new Chrysanthemum variety 'Starlet Bronze' are similar to the male parent variety '98034' in plant habitat and growth rate. In side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Starlet Bronze' differ from plants of the parent '98034' in the following characteristics.

1. The new Chrysanthemum variety 'Starlet Bronze' produces bronze single flowers whereas the parent '98034' produces orange single type flowers.
2. Plants of the new Chrysanthemum variety 'Starlet Bronze' have larger and shorter inflorescence than plants of the parent '98034.'
3. Plants of the new Chrysanthemum variety 'Starlet Bronze' have a shorter natural season reaction time than plants of the parent '98034.'

#### Comparison with Other Varieties

Plants of the new Chrysanthemum variety 'Starlet Bronze' are similar to the unpatented variety 'Trapeze' in plant habit and growth rate. However, in side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Starlet Bronze' differed from plants of the variety 'Trapeze' in the following characteristics.

1. The new variety 'Starlet Bronze' produces small yellow bronze colored flowers whereas 'Trapeze' produces small red bronze flowers.
2. Plants of the new variety 'Starlet Bronze' have larger and slightly taller inflorescence than plants of the variety 'Trapeze.'

#### BRIEF DESCRIPTION OF ILLUSTRATION

Typical specimens of the plant and flowers for the new Chrysanthemum variety 'Starlet Bronze' are shown in the accompanying digital photograph. The colors shown are as true as possible within the usual limits of this kind of illustration. Figure 1 is a whole plant view of the new variety 'Starlet Bronze' grown in a pot. The plant shown in the illustration is 63 days from planting outside in mid-June.

## DETAILED BOTANICAL DESCRIPTION

The following description of the new Chrysanthemum variety 'Starlet Bronze' is of plants grown outside, natural season, in Chichester, West Sussex, United Kingdom in the month of June. The cultivar has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in the environment such as temperature, length of day and light intensity, without any variance in genotype. The commercial classification of the new variety is a garden Chrysanthemum.

Plants of the new variety have been grown successfully under temperature conditions averaging about 50°F at night and about 65°F to 75°F during the day under natural light conditions. The plants were grown outdoors in mid-June in 4 liter pots using loamless compost. No growth retardants were used.

To produce a commercial product the plants may be pinched once with the center bud removed. The typical container size for commercial growth is 4 liters (8"). It has been observed that the shelf life of the new variety is about 25 days with a response time of about 9 weeks. The new variety is suitable for growth in a temperature range of 50°F to 75°F.

The new variety may be produced as a pot plant. The following description is with respect to a plant produced as a garden pot plant. In the description of this new Chrysanthemum variety, color values have been taken from the Royal Horticultural Society Colour Chart (R.H.S.C.C.).

### Plant

Plant type: Pot

Habit: Domed/Round

Height: 45 cm

Width: 45 cm

Branching characteristics: Free Branching

Length of Lateral Branches: 14-25 cm

Number of Breaks from Pinch: 9-15

Stem Color: near 137A

Stem Length: 6-9 cm

Stem Diameter: 0.5-0.8 cm

Response Time: 63 days

Vigor: Medium

Shelf Life: 25 days

5 Disease (Susceptibility/Resistance observed): None observed to date

Pest (Susceptibility/Resistance observed): None observed to date

Growth retardant type and treatment: No treatment necessary

The plants were grown for 9 weeks in natural season conditions.

Propagation:

10 *Type:* Vegetative Propagation via Stem Cuttings

*Time to rooting:* 12 days with soil temperatures of 70°F

*Rooting habit:* Fine and Fibrous

#### Foliage

Number of Leaves Per Lateral Branch: 10-18

15 Compound or single: Single

Arrangement of Leaves: Alternate

Shape of Leaf: Typically 5 lobed ovate

Size of Leaf: *Width* (cm): 2-4.5 *Length* (cm): 3.5-5

Leaf Apex: Acute

20 Base: Truncate

Attachment: Petioled

Aspect: Slightly Undulating

Margin: Palmately Lobed

Surface characteristics: *Top:* Slightly Pubescent

25 *Bottom:* Slightly Pubescent

Petiole: *Color:* near 147A

*Length:* 1.5-2.0 cm

*Diameter:* 0.2-0.4 cm

*Surface:* Slightly Pubescent

*Habit:* Slightly Curving

5                    *Strength:* Moderately Strong

Venation: Net prominent mid vein at underside.

*Color: upper side:* near 138B

*under side:* near 138C

Color:            Mature Leaf, *upper side:* near 138A; *under side:* near 138B

10                    Young Leaf, *upper side:* near 138A; *under side:* near 138B

#### Flower

Flower appearance: Matte

Flower type: Single

Flower form: Flat

15                    Flower shape: Round

Flowering habit: Cyme

Number of blossoms per branch: 12-21

Inflorescence form: Corymibiform

Depth of fully expanded blossoms: 1 cm

20                    Diameter of fully expanded blossoms: 2.5-3.5 cm

Phyllaries:        *Number:* 22-25

*Color:* near 137C

*Length:* 5-8 mm

*Width:* 1-2.5 mm

25                    *Texture/Appearance:* Shiny/Slightly Pubescent

Pedicel:           *Length:* terminal: 6 cm; lateral: 9.5 cm

*Diameter:* 0.2-0.4 cm

*Color:* near 137C

*Surface:* Pubescent

*Habit:* Slightly Curving  
*Strength:* Moderately Strong  
 Peduncle: *Length:* 11-19 cm  
               *Diameter:* 0.3-0.6 cm  
 5               *Color:* near 137C  
               *Surface:* Slightly Pubescent  
               *Habit:* Slightly Curving  
               *Strength:* Moderately Strong  
 Ray florets: *Form/Shape:* Straight and Oblong  
 10               *Texture/Appearance:* Matte  
               *Number per flower:* 27-35  
               *Length:* 1.5-1.9 cm; *Width:* 4-5 mm  
               *Apex:* Rounded  
               *Base:* Tubular  
 15               *Margin:* Entire  
 Disc florets: *Form/Shape:* Cylindrical  
               *Texture/Appearance:* Shiny  
               *Number per flower:* 120-150  
               *Length:* 6.5 cm; *Width:* 1 mm  
 20               *Diameter of disc:* 0.8-1.0 cm

Fragrance: None

Flower Bud (at onset of color):

*Length:* 9 mm  
               *Diameter:* 9 mm  
 25               *Form/Shape:* Globular

General flower color:

1. Ray florets, *upper side:*  
               *Immature:* near 169A  
               *Mature:* near 169C  
 30               *Older/Fading:* near 17B

2. Ray florets, *under side*:

*Immature*: near 169A

*Mature*: near 169C

*Older/Fading*: near 17B

5 3. Disc florets:

*Immature*: near 15C

*Mature*: near 15A

*Older/Fading*: near 15A

4. Bud: 62A

10 Flower progression with age: Flowers fade uniformly with age and retain their flower shape.

Lastingness of blooms: about 25 days

Reproductive Organs

Gynoecium present on Ray and Disc florets.

15 Ray florets per individual flower:

*Pistil number*: 25-27 observed

*Stigma color*: near 144D

*Stigma shape*: Forked

*Style color*: near 144D

20 *Style length*: 1-2 mm

Disc florets per individual flower:

*Pistil number*: 120-130 observed

*Stigma color*: near 144D

*Stigma shape*: Forked

25 *Style color*: near 144D

*Style length*: 1.5-2.5 mm

Androecium present on Disc florets only.

*Stamen number*: 75-80 observed



*Anther shape:* Clubbed  
*Anther color:* near 14C  
*Pollen color:* near 12A  
*Pollen quantity:* Medium/Low

5 Fruit and Seeds: None observed